: SADDLE FITTING, FWD (OUTBOARD/INBOARD)

Tuesday, 30/09/2008 11:14:20 AM

User:

Process Sheet

Customer Job Number : CU-DAR001 Dart Helicopters Services

: 42360 : 10531

Estimate Number

P.O. Number

This Issue

: 30/09/2008

: NC

Prsht Rev. : // First Issue

: 41704 **Previous Run**

Type

S.O. No. :

: MACHINED PARTS

Part Number

Drawing Name

Drawing Number

: D2572 REV E : N/A **Project Number** : E

Drawing Revision Material

Due Date

: 17/10/2008

: D2572

Qty:

Each

Written By

Checked & Approved By

Comment

Est: | 02.10.02

Re-format; Change to Dwg Rev. D &

incorporated D2572KJ

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

D6101005 1.0

Saddle Billet

16.0000 Each(s)



Comment: Qty.:

1.0000 Each(s)/Unit 7075-T7351 8.25X5.0X2.5

Make from D6101-005 billet for D2572 Ensure that grain is along 5.00" length

Batch No: 334874

Total:



2.0

HAAS1

Comment: HAAS CNC VERTICAL MACHINING #1

Program Batch No. 42360 Double check by: 17.4

1-Machine Step No 1 per Folio FA051 and inspect per attached Dimension Sheets 2-Machine Step No 2 per Folio FA051 and inspect per attached Dimension Sheets

3-Machine Step No 3 per Folio FA051 and inspect per attached Dimension Sheets

4-Deburr and remove all machining marks

5-Tumble to remove shap edges.

3.0

MILLING CONV.



Comment: CONVENTIONAL MILLING MACHINE

Machine keyway as per dwg D2571 & D2572

W/O:

DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	l						
	:						
· ·							
	i			Sei	2 12	CR 423	59
Part No	DZ	PAR #: Fault Category: NC	R: Yes	No DQ	A: #	Date: _	8.11.04

WORK ORDER CHANGES

Resolution: _____ Disposition: _____ QA: N/C Closed: ____ Date: _____

NCR: 4	2360	W	ORK OR	DER NON-CONFORMANCE	(NCR)			
DATE	STEP	Description of NC	Initial	Corrective Action Section B Action Description	Sign &	Verification	Approval	Approval
		Section A	Chief Eng	Chief Eng .	Date	Section C	Chief Eng	QC Inspector
	;	on sools has Dim . 250" measuring	1	Acceptable, ref DS			P	
	#	ore popule has Dim . 250" measuring o.220". (Flange arround x-tube bore) C.C. employee notices that the	68.16.73	email (ME I		08.10.23	
8/10/23	20	R.C. employee notices that the moent tool has hap two	वेश ०५८		08/11/04	०६/७/३३	asion	08/08
		Differ was inserts on it.			3			
		1- mas 1/22,				•		orlales
			:					
]							

ì Tuesday, 30/09/2008 11:14:20 AM Date: User: Julie Lecoca **Process Sheet** Drawing Name: SADDLE FITTING, FWD (OUTBOARD/INBOARD) Customer: CU-DAR001 Dart Helicopters Services Job Number: 42360 Part Number: D2572 Job Number: Seq. #: Description: **Machine Or Operation:** INSPECT PARTS AS THEY COME OFF MACHINE 4.0 QC2 Comment: INSPECT PARTS AS THEY COME OFF MACHINE SECOND CHECK 5.0 QC8 Comment: SECOND CHECK HAND FINISHING RESOURCE #1 6.0 HAND FINISHING1 Comment: HAND FINISHING RESOURCE #1 Acid etch and Alodine as per QSI 005 4.1 POWDER COATING POWDER COATING 7.0 109152 Comment: POWDER COATING Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3 START TIME: OVEN TEMPERATURE: FINISH TIME: INSPECT POWDER COAT/CHEMICAL CONVERSION 8.0 QC3 Comment: INSPECT POWDER COAT PACKAGING RESOURCE #1 9.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 433 FINAL INSPECTION/W/O RELEASE 10.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE N 08:10.31 Job Completion

Dart Aerospace Ltd

_										
W/O:			W	ORK ORDER CHA	ANGES					
DATE	STEP	PROCE	PROCEDURE CHANGE					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	•		-							
							•			
										-
	7 1 1									
Part No		PAR #:								
	R	esolution:	Dispositi	on:	QA	: N/C Clo	sed:		Date:	
NCR:		WC	ORK ORI	DER NON-CONFO	RMANCE	(NCR))			
DATE	STEP	Description of NC	Corrective Action Section B			Verificat			Approval	Approval
DAIL	0.2.	Section A	Initial Chief Eng	Action Descrip Chief Eng	tion	Sign & Date	Secti	on C	Chief Eng	QC Inspector
					. ·					
					·					•
					•					-
				<u> </u>						, -
					* * * * * * * * * * * * * * * * * * *					
i	1	1		•		1	1		I .	+

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	42360
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

			Recorded Actual Dimensions						
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	Ву	Date
A	0.438	0.443		. 440	-440	-440	.440		
В	1.745	1.755		1.750	1.750	1,750	1.750		
С	3.495	3.505		3.500	3,500	3.500	3.500		
D	1.745	1.755		1.750	1750	1.750	1-7-50		
E	7.990	8.010		8.000	8,000	8.001	8.000		
F	0.490	0.510		.501	-500	.501	.501		
G	0.257	0.262		259	- 259	.258	.259		
Н	0.375	0.380		277	-377	-377	.377		
i	0.490	0.510		\$00	,500		.501		
J:	1.174	1.184		1.178	1.179	1-179	1.179		
K	0.558	0.578		. 569	.568	5.66	547		
L	1.174	1.184		1.178	1179	7.179	1.179		
M	1.490	1.500	-	1.492	1.493	1.495	1.494		
N	2.495	2.505		2,498	2.499	2,500	2500		
0	3.869	3.879		3,869	3.872	3.874	3.874		
Ρ.	0.115	0.135		-124	-123	.126	127		
Q	0.115	0.135	'	.135	. 135.	135	. 135		
R	0.240	0.260		.287	. 251	,251	. 257		
S	0.115	0.135		129	./26	./26	.127		
T	0.178	0.198		122	·188	-188	. 188	./	
Ū	2.940	2.980		2.958	.188 2.960	2.960	2.960		
V	0.230	0.250		.238	<u> </u>	6240	.235		
W	0.115	0.135		./2%	. 129	129	126		
X	0.307	0.312		-311	-312	-311	309		
Y	0.760	0.765		-760	-466	-760	760		
Z	0.352	0.372		358	,362	359	.356		
AA	0.470	0.530		.500	.500	,500	.500]"	
AB	0.615	0.635		-624	-626	.626	. 628		
AC	0.053	0.073		.063	-063		.063		
AD	0.240	0.260		.222	250	249	.246		
AE	1.375	1.395		1.388	1.386	249 249 739/	7.3%		
AF	0.115	0.135	,	-/30	-130	-/30	-/35		
AG	0.240	0.280		.278	-260	260	260		
AH	0.240	0.260		.248	.251	.249	.248		
Al	2.000	2.020		2.003	2.001	2,005	2.005		
AJ	0.023	0.043		· 033	~033 /	-033	.033		
		cept/Reje	ct						

	A			0.0
Measured by:	and	151	Audited by	SP. (
Date:	08/10/27/	08/10/23	Date: ອ	8/10/28

Date	Change	Revised by	Approved
	New Issue	RF	
02.09.24	Re-format; Added Rev. D	KJ	
02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ .	
05.05.05	Added dimension Al	KJ/RF	1
05.12.05	Added dimension AJ	KJ/JLM C	
	02.09.24 02.10.11 05.05.05	New Issue 02.09.24 Re-format; Added Rev. D 02.10.11 Re-format; Added DT8682, DT8683, DT8684 05.05.05 Added dimension Al	New Issue RF 02.09.24 Re-format; Added Rev. D KJ 02.10.11 Re-format; Added DT8682, DT8683, DT8684 KJ 05.05.05 Added dimension AI KJ/RF

DART AEROSPACE LTD	Work Order:	112360
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

	•			Re	corded Actu	ual Dimensi	ons		
Dim	Min	Max	Go/No Go Gauge	NB	1 6	3 7	48	Ву	Date
Α	0.438	0.443		· MUD	440	.440	.440		
В	1.745	1.755		1.750	1.750	1.750	1.750		
С	3.495	3.505		3,500	3.500	3.500	3.500		
D	1.745	1.755		1.7-50	1,7-50	1,750	1.750		
Е	7.990	8.010		8.001	2.001	8,000	8.001		
F	0.490	0.510		-5700	.500	.500	503		
G	0.257	0.262		.260	.500	.240	260		
Н	0.375	0.380		377	.377	.377	.377		
J	0.490	0.510		.500	500	490	501		
J	1.174	1.184		1.179	1.179	1.172	1.179		
K	0.558	0.578		569	.548	558	,570		
┙	1.174	1.184		1.179	1.179	1.179	1.179		
М	1.490	1.500		1.495	1.493	1.494	1.495		
N	2.495	2.505		2.500	2.499	2.500	2.500		
0	3.869	3.879		3.872	3874	3871	3.871		
Р	0.115	0.135		.128	128	129	129		
Q	0.115	0.135		.135	. 135	. 135	. 135		
R	0.240	0.260		.252	,252	.251	. 252		
S	0.115	0.135		,129	.130	.129	.129		
Τ	0.178	0.198		. 188	1.188	, 188	-188		
U	2.940	2.980		2.960	2.958	2.966	2.940		
V	0.230	0.250		.236	.236	. 239	.236		
W	0.115	0.135		.128	./36	130	127		
X	0.307	0.312		308	.308	308	308		
Y	0.760	0.765		760	740	.76b	.760		
Z	0.352	0.372		361	.345	-364	360		
AA	0.470	0.530		.500	. 500	500	,500		
AB	0.615	0.635		.628	,428	.628	.629		
AC	0.053	0.073		.063	-063	063	.063		
AD	0.240	0.260		.247	246	.249	.246	 	
AE	1.375	1.395		1.39/	1.389	1.390	1.391		·
AF	0.115	0.135		,/35	.135	-/35	.135		
AG	0.240	0.280		260	.253	.250	-250		
АН	0.240	0.260		.248	: 250	.250	250	ļļ.	
Al	2.000	2.020		2.005	2.004	2.004	2.005	ļ	
AJ	0.023	0.043		.033	.033	·033	°.033	ļļ	· <u>-</u>
	Ac	cept/Reje	ct						

	Ŷ.	
Measured by:	The same	Audited by ,
Date:	08/10/27	Date: 08/20/2V

Date	Change	Revised by	Approved
	New Issue	RF	
02.09.24	Re-format; Added Rev. D	KJ	
02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
05.05.05	Added dimension Al	KJ/RF	-1
05.12.05	Added dimension AJ	KJ/JLM ox	
	02.09.24 02.10.11 05.05.05	New Issue 02.09.24 Re-format; Added Rev. D 02.10.11 Re-format; Added DT8682, DT8683, DT8684 05.05.05 Added dimension Al	New Issue RF 02.09.24 Re-format; Added Rev. D KJ 02.10.11 Re-format; Added DT8682, DT8683, DT8684 KJ 05.05.05 Added dimension AI KJ/RF

DART AEROSPACE LTD	Work Order:	42360
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

				Re	corded Acti	ual Dimensi	ons		
Dim	Mijn	Max	Go/No Go Gauge	19	2/0	\$ 11	1/12	Ву	Date
Α	0.438	0.443		.440	,440	.440	.440		
В	1.745	1.755		1.750	1.750	1.750	1.750		
С	3.495	3.505		3.500	3.500	3,500	3,500		
D	1.745	1.755		1.750	1,750	1.750	1.750		
E	7.990	8.010		7.999	8.000	7.999	7.999		
F	0.490	0.510		.502	.502	-501	501	,	-
G	0.257	0.262		.240	,259	240	.260		
Н	0.375	0.380		1.377	.377	.378	. 377		
T I	0.490	0.510		.503	.503	. 498	5703		
J	1.174	1.184		1.179	1.179	1.179	1.179		
K	0.558	0.578		.571	.571	561	,571		
L	1.174	1.184		1.179	1.179	1.17-8	1.17-9		
М	1.490	1.500		1.495	1.495	1.495	1.494		
N	2.495	2.505		2.500	2.500	2.499	2.500		
0	3.869	3.879		3.872	3.872	3.87/	3.872		
Р	0.115	0.135		.130	. 136	./30	-130		
Q	0.115	0.135		.135	1/35	-135	.135		
R	0.240	0.260		.253	.253	,253	,253		
S	0.115	0.135		-120	./30	/3,2	132		
Т	0.178	0.198		. 188	1.88	. 188	. 188		
U	2.940	2.980		2.940	2.9100	2.959	2.940		
V	0.230	0.250		.240	-239	240	.246		
W	0.115	0.135	-	. 122	.125	.129	130		
X	0.307	0.312		316	.310	.309	309		
Y	0.760	0.765		-760	.760	740	760		
Z	0.352	0.372		.357	,355	.363	.366		
ĀA	0.470	0.530		.500	· 500	.500	.500		
AB	0.615	0.635		.430	.636	.628	1.1,28		
AC	0.053	0.073		.063	.063	.063	.063		
AD	0.240	0.260		.242	244	.245	.247		
AE	1.375	1.395		1.391	1.392	1.389	1.390		
AF	0.115	0.135		135	.135	-/35	135		
AG	0.240	0.280		. 250	.255	,258	.256		
AH	0.240	0.260		. 250	-249	.250	250		
. Al	2.000	2.020		2.004	2.006	2.003	2.004		
AJ	0.023	0.043		033	.033	-033	.033		
	Ac	cept/Reje	ct						

	-0//
Measured by:	Audited by AP, ,
Date: 0\$/10/27	Date: 08/10/29

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF	-1
E	05.12.05	Added dimension AJ	KJ/JLM 🛷	

DART AEROSPACE LTD	Work Order:	42360
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

				Re	corded Actu	ual Dimensi	ons		
Dim	Min	Max	Go/No Go Gauge	13	12/4	1815	416	Ву	Date
Α	0.438	0.443		.440	.440	-440	,440		
В	1.745	1.755		1.750	1.750	1.750	1.750		
C	3.495	3.505		3.500	3,500	3.500	3.500		
D	1.745	1.755		1.750	1.750	1.750	1.750		
Е	7.990	8.010		7.999	7,999	7.998	7.998		
F	0.490	0.510		. 499	.502	-503	-499		
G	0.257	0.262		.260	-260	1260	.254		
Н	0.375	0.380		.377	.377	.377	.377		
Ī	0.490	0.510		504	-502	502	.504		
J	1.174	1.184		11.179	1.179	1.178	1.179		
K	0.558	0.578		.574	.571	.571	.571		
Ĺ	1.174	1.184		1.179	1.179	1.178	1.179		
М	1.490	1.500		1.495	1.495	2.495	1.494		
N	2.495	2.505		2.499	2.499 3.872	2.500	2,499		
0	3.869	3.879		3.871	3.872	3.872	3.872		
Ρ	0.115	0.135		. 132	./3 0	.131	131		
Ø	0.115	0.135		.135	. 135	.135	.135		
R	0.240	0.260		.253	1254	.254	-255		
S	0.115	0.135		132	-134	134	,131		
Τ	0.178	0.198		- 188	. 188	./\$8	. 188		
כ	2.940	2.980		2.960	2.958	2.957	2.958		
>	0.230	0.250		241	.240	240	240		
8	0.115	0.135		. 130	·/3 0	.731	. /3 2		
X	0.307	0.312		.309	.309	.309	.309		
Υ	0.760	0.765		.760	.760	.760	.760		
Z	0.352	0.372		.362	-364	-364	.365		<u> </u>
AA	0.470	0.530		-S00	500	.SDD	. 506		
AB	0.615	0.635		.629	.629	.628	. 428		
AC	0.053	0.073		-063	063	.063	.063		
AD	0.240	0.260		.247	.244	.245	.247		
AE	1.375	1.395		1.39/	1.390	1.390	1.390		
AF	0.115	0.135		.135	.135	1/35	. /35		
AG	0.240	0.280		.255	.252	.255	-260		
AH	0.240	0.260		- 250	.250	.251	.257		
ΑI	2.000	2.020		2.005	2.005	2.005	2.005		
AJ	0.023	0.043		. 033	.033	.033	.033		
	Ac	cept/Reje	ct						

Measured by:	Audited by
Date: 08/18/27	Date: 08/10/28

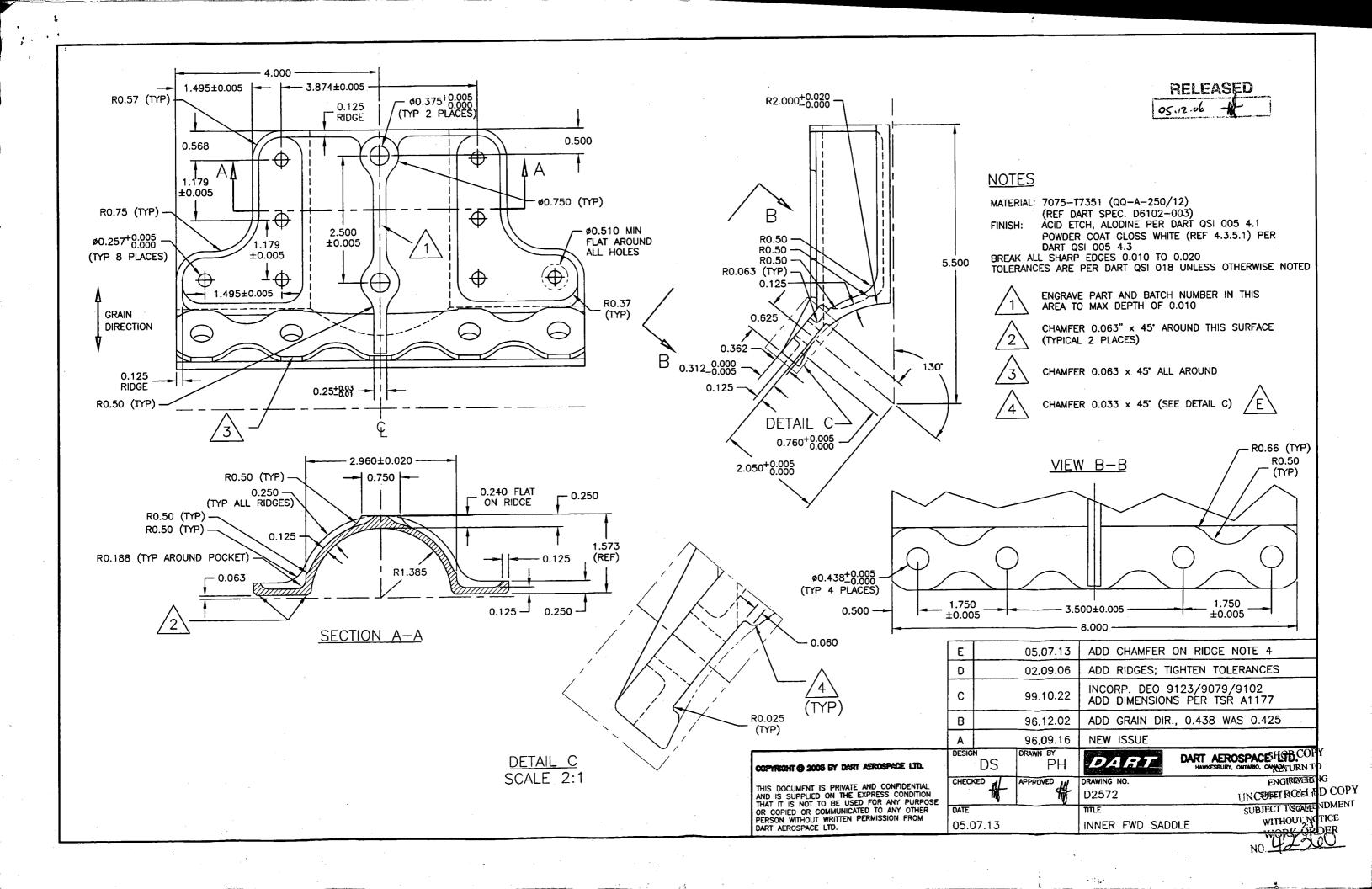
Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ .	
D	05.05.05	Added dimension Al	KJ/RF	-1
E	05.12.05	Added dimension AJ	KJ/JLM J	

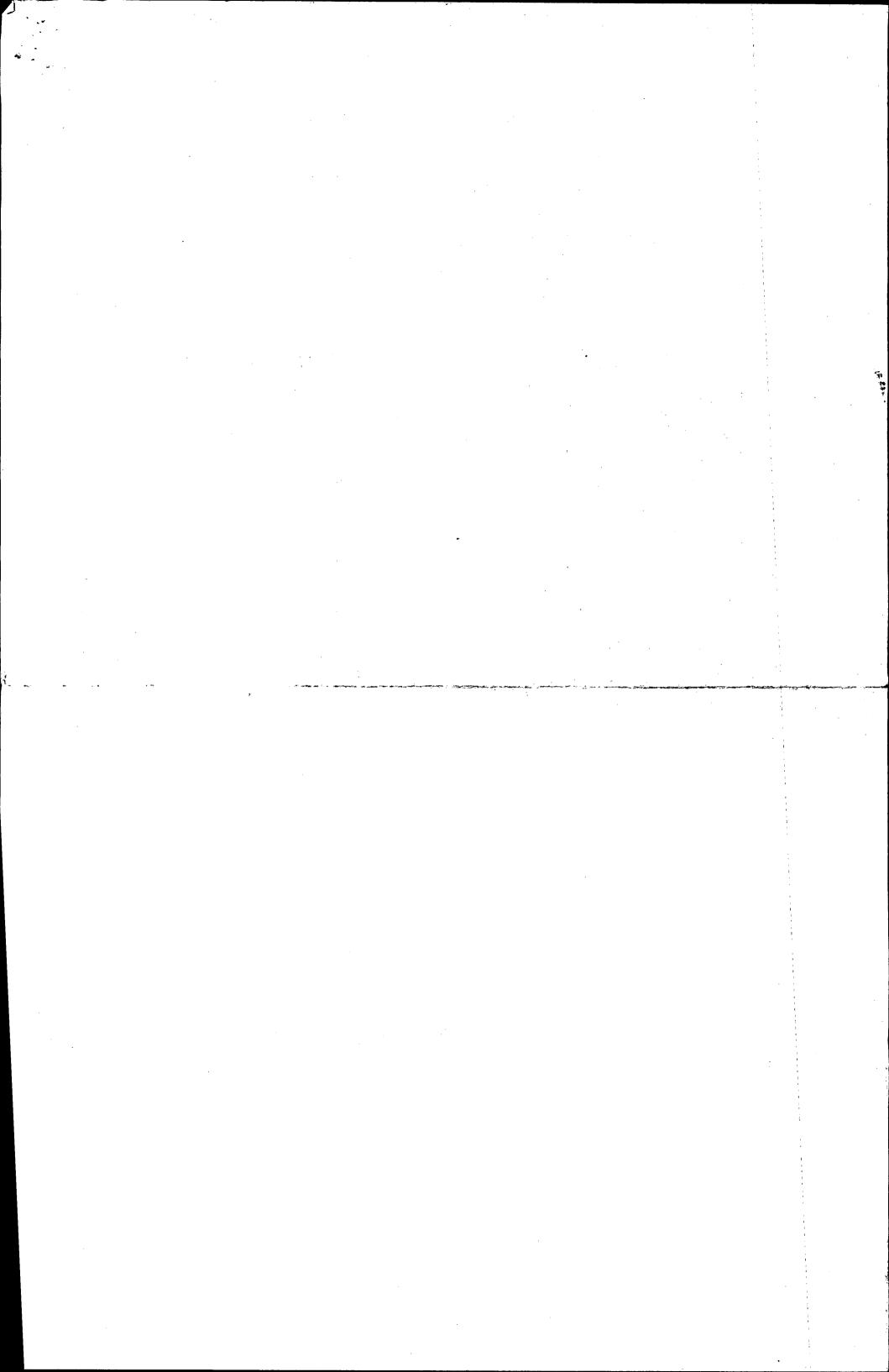
DART AEROSPACE LTD	Work Order:	42503
Description: Saddle, Fwd Inboard	Part Number:	D2572
Inspection Dwg: D2572 Rev. E		Page 1 of 1

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	17	Z	,3ĵ	4	Ву	Date
Α	0.438	0.443		-440		 		 	
В	1.745	1.755		1.750	·			 	
С	3.495	3.505		3.500	· · · · · · · · · · · · · · · · · · ·	 		+ +	
D	1.745	1.755		1.750				 	
E	7.990	8.010		8.000				1	
F	0.490	0.510		:501		1		+	·
G	0.257	0.262		260				 	
Н	0.375	0.380		.377		1	_	+	
-	0:490	0.510		-503					-
J	1.174	1.184		1.179	•		·	+	
K	0.558	0.578		.571	···				
L	1.174	1.184	·	1129		t	····	 	
М	1.490	1.500		1,495				 	
N	2.495	2.505		2,499		 		++	
0	3.869	3.879		3.872				 	
Р	0.115	0.135		, 131		<u> </u>		┼┼	·
Q	0.115	0.135		1/35	.,				
R	0.240	0.260		254				+	
S	0.115	0.135		-/32	· · · · · · · · · · · · · · · · · · ·		 ·· · ··	 	
T	0.178	0.198		188	***			 	
U	2.940	2.980		2.458				 	· ··· · · · · · · · · · · · · · · · · ·
V	0.230	0.250		240				 -	
W	0.115	0.135	· · · · · · · · · · · · · · · · · · ·	127					
Χ	0.307	0.312		-309				-	
Υ	0.760	0.765	-	-760				-	
Z	0.352	0.372		.363					
AA	0.470	0.530		.500				-	
AB	0.615	0.635,		.625				 	
AC	0.053	0.073		.063				 	
AD	0.240	0.260		248					
AE	1.375	1.395		1.990					
AF	0.115	0.135		1736					
ĀG	0.240	0.280		· 258					
AH	0.240	0.260		250					
AI	2.000	2.020		2.006					
AJ	0.023	0.043		· 033					
		ept/Rejec		. 025					

Measured by:	Cont.	Audited by KP,
Date:	08/10/27/	Date: 08/10/08

Rev	Date	Change	Revised by	Approved
Α		New Issue	RF	
В	02.09.24	Re-format; Added Rev. D	KJ	
С	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension Al	KJ/RF	1
Е	05.12.05	Added dimension AJ	KJ/JLM A	all





Chris Provencal

From:

David Shepherd [dshepherd@dartaero.com]

Sent:

October 23, 2008 1:56 PM

To:

'Chris Provencal'

Subject:

RE: Emailing: NCR-D2571.jpg

Agree. Parts are acceptable.

David

----Original Message----

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Thursday, October 23, 2008 8:40 AM

To: 'David Shepherd'

Subject: Emailing: NCR-D2571.jpg

David,

D2751 & D2752, both and inner and outer saddle have the top ridge 0.220" (nominal = 0.250") under tolerance, see attached picture. I don't have anything to substantiate this by calculation. However, on the basis that the original saddle did not have this ridge, I would conclude that these saddles are acceptable. Do you concur?

-Chris

No virus found in this incoming message.

Checked by AVG.

Version: 7.5.549 / Virus Database: 270.8.2/1739 - Release Date: 10/22/2008

7:23 AM

No virus found in this outgoing message.

Checked by AVG.

Version: 7.5.549 / Virus Database: 270.8.2 - Release Date: 10/20/2008 12:00 AM

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